

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20774	(Gibson\$.in or hansen\$.in.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:23
L2	78	L1 AND (detergent composition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:20
L3	41	L2 AND (endo-glucanase OR cellulase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:24
L4	33692	detergent composition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:23
L5	33614	L4 NOT (Gibson\$.in or hansen\$.in.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:23
L6	3315	L5 AND (endo-glucanase OR cellulase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:25
L7	965	L6 AND (anti-redeposition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:32
L8	11	L6 AND (anionic tenside\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:26
L9	0	(endo-glucanase) SAME (anionic-tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:33

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L10	0	(endo-glucanase) AND (anionic-tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:34
L11	2	(endo glucanase) AND (anionic tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:35
L12	21	(cellulase) AND (anionic tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:39
L13	7	(endo glucanase) AND (anti-redeposition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:48
L14	3	(endo glucanase) SAME (weight ratio)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:59
L15	602	(detergent composition) SAME (pH range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:07
L16	0	I15 AND ("5.5-10.5")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:01
L17	0	I15 AND (pH "5.5-10.5")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:01
L18	27	(endo-glucanase) SAME (pH)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:08

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Or  
Al

1. **ENDO-BETA-1,4-GLUCANASE FROM BACILLUS OUTTRUP, Helle / SCHÜ / LEIN, Martin / ESKELUND, Mads, Bjø / rnvdad / GIBSON, Keith / NOVOZYMES A/S, PATENT COOPERATION TREATY APPLICATION, Dec 2002**

...encoding such an **endo- beta-1,4-glucanase**, and use...5 in the **detergent**, paper and...suitable for **detergents**. There is...preferably an **endo-beta- 1,4-glucanase**, activity...function. The **endo-glucanase** of the invention...especially in **detergent** compositions...

**Full text available at patent office. For more in-depth searching go to**  **view all 199 results from Patent Offices**

2. **FAMILY 6 ENDO-1,4-&lsqb;bgr&rsqb;-GLUCANASE VARIANTS AND CLEANING COMPOSITIONS CONTAINING THEM LUND, Henrik / NIELSEN, Jack, Bech / SCHULEIN, Martin / DAMGAARD, Bo / ANDERSEN, Kim, Vilbour / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Jan 1999**

FAMILY 6 **ENDO-1,4-#bgr#-GLUCANASE VARIANTS AND...including laundry **detergent** compositions...containing an **endo-1,4-0- glucanase** of the glycosyl...the parent **endo-beta-1,4-glucanase** or cellulase...enzyme with poor **detergent** compatibility...**

**Full text available at patent office. For more in-depth searching go to**  **view all 199 results from Patent Offices**

3. **Endo-B-1,4-glucanases from saccharothrix Bjø / rnvdad, Mads Eskelund / Hatakeyama, Mariko / Schü / lein, Martin / Nielsen, Jack Bech / NovoNordisk A/S, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Mar 2001**

...comprising an enzyme having **endo-&lsqb;bgr&rsqb;-1,4- glucanase** activity obtainable from...the enzyme) exhibiting **endo-&lsqb;bgr&rsqb;-1,4- glucanase** activity selected from...preparation being useful in a **detergent** or fabric softener composition...

**Full text available at patent office. For more in-depth searching go to**  **view all 199 results from Patent Offices**

- similar results**
- 4. Proteolytic release of membrane-bound endo-(1,4)-beta-glucanase activity associated**

with cell wall softening in Achlya...

**Terry W Hill / Darlene M Loprete / Kim N Vu / Mokhtari Susan P Bayat / L Vanessa Hardin, Can J Microbiol, Jan 2002**

...demonstrate a latent **endo-(1,4)-beta-glucanase** activity in a mixed...much smaller effect. **Detergent** treatment of membranes releases two **glucanases** detectable by electrophoretic...migrate in parallel with **glucanases** secreted during wall...

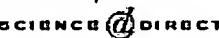
**MEDLINE/PubMed Citation on PubMed**

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5. Cloning of a gene encoding a highly stable endo-beta-1,4-glucanase from Aspergillus niger and its expression in yeast

**Hong, J. / Tamaki, H. / Akiba, S. / Yamamoto, K. / Kumagai, H., Journal of Bioscience and Bioengineering, Jan 2001**

...three types: **endo-13-1,4-glucanases** [EC 3.2.1.4...been used in **detergents** (1-2), the pulp...use in laundry **detergents**, the cellulase...resistant to **detergent** components such...laboratory, an **endo-13-1,4-glucanase** was purified...

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6. NOVEL ENDO-BETA-1,4-GLUCANASES

**SCHÜ / LEIN, Martin / BJØ / RNVAD, Mads, Eskelund / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Dec 2000**

...homologous to a *Bacillus lichenif*is family 9 **endo-0-1,4- glucanase**, to an isolated polynucleotide molecule encoding such an **endo-0-1,4- glucanase**, and use of the enzyme in the **detergent**, paper and pulp, oil drilling, oil extraction...

**Full text available at patent office. For more in-depth searching go to  LexisNexis**

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7. ENDO-&lsqb;bgr&rsqb;-1,4-GLUCANASES FROM

**BJØ / RNVAD, Mads, Eskelund / HATAKEYAMA, Mariko / SCHÜ / LEIN, Martin / NIELSEN, Jack, Bech / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Jan 1999**

...present invention relates to an **endo-P-1,4-glucanase** preparation derived from a *Saccharothrix*...polynucleotide molecule encoding an **endo-0-1,4-glucanase**, an isolated enzyme produced...preparation or the enzyme in the **detergent**, paper and pulp, oil drilling...

**Full text available at patent office. For more in-depth searching go to  LexisNexis**

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8. ENDO- AND EXO-GLUCANASE POLYNUCLEOTIDES AND METHODS OF USE

**SIMMONS, Carl, R. / PIONEER HI-BRED INTERNATIONAL, INC., PATENT COOPERATION TREATY APPLICATION, Dec 2000**

**ENDO- AND EXO-GLUCANASE POLYNUCLEOTIDES AND METHODS OF USE...glucanases.** BACKGROUND OF THE INVENTION **Endo-** and **exo-glucanases** are enzymes that can hydrolyze B-linked...1.58, Huber and Nevins 1982) and **endo-glucanases** (akin to EC 3.2.1.73, for examples...

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9. DETERGENT CONTAINING GLUCANASE

**KOTTWITZ, Beatrix / MAURER, Karl-Heinz / Henkel Kommanditgesellschaft auf Aktien, EUROPEAN PATENT, May 2000**

...aufweist. Als **beta-Glucanases** sollen hier Enzyme aus der Klasse der **Endo-1,3-1,4-beta-D-**

glucan-4-glucanohydrolasen...Ebenfalls als **β-Glucanases** im Sinne der Erfindung gelten  
**Endo-1,3-β-D-glucosidasen...Laminarinasen**). **β-Glucanases** spalten Mischglucane...  
**Full text available at patent office. For more in-depth searching go to LexisNexis**  
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10. DETERGENT COMPOSITIONS CONTAINING CELLULASE COMPOSITIONS DEFICIENT IN CBH I TYPE COMPONENTS

**CLARKSON, Kathleen, A. / WEISS, Geoffrey, L. / LARENAS, Edmund, A. / SHOEMAKER, Sharon, P. / GENENCOR INTERNATIONAL, INC., EUROPEAN PATENT,** Jul 1993

...endoglucanase components in **detergent** compositions complements...requirements of the **detergent** composition. The **endo-glucanase** component of this...herein to define **endo-glucanase** type components...similar properties in **detergent** compositions as...

**Full text available at patent office. For more in-depth searching go to LexisNexis**  
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11. Endoglucanase and Mannanase from Blue Mussel, Mytilus edulis: Purification, Characterization, Gene and Three Dimensional ...

**Xu, Bingze**, Jan 2002

...polysaccharide-degrading enzymes (**endo-1,4-D-glucanase** and ?-mannanase) from blue...polysaccharide-degrading enzymes (**endo-1,4-D-glucanase** and β-mannanase) from blue...thermostable, low molecular mass **endo-β-1,4-glucanase** from blue mussel, *Mytilus edulis*...

**Full text available from DiVA**  
[similar results](#)

12. DETERGENT COMPOSITIONS CONTAINING CELLULASE COMPOSITIONS DEFICIENT IN CBH I TYPE COMPONENTS

**CLARKSON, Kathleen, A. / WEISS, Geoffrey, L. / LARENAS, Edmund, A. / SHOEMAKER, Sharon, P. / GENENCOR INTERNATIONAL, INC., PATENT COOPERATION TREATY APPLICATION**, Apr 1992

...WO 89/09259 discloses that **detergent** compositions containing a...endoglucanase components in **detergent** compositions complements the pH requirements of the **detergent** composition. The **endo-glucanase** component of this reference...

**Full text available at patent office. For more in-depth searching go to LexisNexis**  
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13. Enzymatic properties, crystallization, and deduced amino acid sequence of an alkaline endoglucanase from *Bacillus*...

**Hakamada, Y. / Endo, K. / Takizawa, S. / Kobayashi, T. / Shirai, T. / Yamane, T. / Ito, S.**, *Biochimica et Biophysica Acta (BBA)/General Subjects*, Apr 2002

...Crystallization Lichenase *Bacillus* Egl **endo-1,4- beta -glucanase** CMC carboxymethyl cellulose...study of *Bacillus* cellulase [**endo-1,4- beta -glucanase**, Egl (EC3.2.1.4)] has, until...effective additives to laundry **detergents** [1,3,4] . In 1988, we incorporated...

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14. DETERGENT CONTAINING GLUCANASE

**KOTTWITZ, Beatrix / MAURER, Karl-Heinz / HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN, PATENT COOPERATION TREATY APPLICATION**, Feb 1999

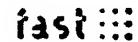
...verträglichen Inhaltsstoffen eine **β-Glucanase** enthält. Als **β-Glucanases** sollen hier Enzyme aus der Klasse der **Endo-1,3-1,4-β-D- glucan-4- glucanohydrolasen**...werden. Ebenfalls als **β- Glucanases** im Sinne der Erfindung gelten **Endo-1,3-β-D-glucosidasen** (EC...

**Full text available at patent office. For more in-depth searching go to LexisNexis.**  
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- 15. Endoglucanase and Mannanase from Blue Mussel, *Mytilus edulis*: Purification, Characterization, Gene and Three Dimensional ...**  
**Xu, Bingze**, Apr 2002  
...polysaccharide-degrading enzymes (**endo-1,4-D-glucanase** and  $\beta$ -mannanase) from blue...thermostable, low molecular mass **endo- $\beta$ -1,4-glucanase** from blue mussel, *Mytilus edulis*...and sequencing of a molluscan **endo- $\beta$ -1,4-glucanase** gene from the blue mussel...  
**Full text thesis available via NDLTD**  
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- 16. Caracterització i propietats de dues endo-?-(1,4)-glucanases implicades en l'estovament del fruit de maduixa.**  
**Palomer Tarridas, Francesc Xavier**, Jun 2002  
...CARACTERITZACIÓ I PROPIETATS DE DUES **ENDO- $\beta$ -(1,4)-GLUCANASES** IMPLICADES EN L'ESTOVAMENT...CARACTERITZACIÓ I PROPIETATS DE DUES **ENDO- $\beta$ -(1,4)-GLUCANASES** IMPLICADES EN L'ESTOVAMENT...CARACTERITZACIÓ I PROPIETATS DE DUES **ENDO- $\beta$ -(1,4)-GLUCANASES** IMPLICADES EN L'ESTOVAMENT...  
**Full text thesis available via NDLTD**  
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- 17. List of PDB codes [69K]**  
Nov 1998  
...inhibitor pki(5-24) and the **detergent** mega-8 1apy(A) - Human...Barley 1,3-1,4-beta-**glucanase** in monoclinic space group...d-glucan-glucanohydrolase, cellulase **endo-1,4-beta-glucanase** d 1cmb(A) - Met apo...at 15 degree C 1edt - **Endo-beta-n-acetylglucosaminidase**...  
[<http://www.biochem.ucl.ac.uk/bsm/sidechains/dataset.htm>]  
[similar results](#)
- 18. A THERMOSTABLE ENDO-BETA-1,4-GLUCANASE**  
**ANDERSEN, Lene, Nonboe / BJØRNVAD, Mads, Eskelund / SCHÜTT, LEIN, Martin / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION**, Aug 1998  
...91), **endo-beta-1,4-glucanase** (**endo-1,4-beta-D-glucan**...different **endo-beta-1,4-glucanases** from *Trichoderma viride*...known that family 12 **endo-beta-1,4-glucanases** may also exhibit xyloglucanase...as ingredients in **detergent** compositions or fabric...  
**Full text available at patent office. For more in-depth searching go to LexisNexis.**  
[view all 199 results from Patent Offices](#)  
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- 19. Enzymic activities responsible for xyloglucan depolymerization in extracts of developing tomato fruit**  
**Faik, A. / Desveaux, D. / MacLachlan, G., Phytochemistry**, Sep 1998  
...end-product activation of an **endo-1,4--glucanase** or XGase, for the following reasons: non-specific **endo-1,4--glucanase** (carboxymethylcellulase) activities...were recovered from buffer and **detergent**-extracts but were barely detectable...  
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- 20. Identification of thermostabilizing residues in a *Bacillus* alkaline cellulase by construction of chimeras from...**  
**Hakamada, Y. / Hatada, Y. / Ozawa, T. / Ozaki, K. / Kobayashi, T. / Ito, S., FEMS Microbiology Letters**, Feb 2001

...alkaline **endo**-1,4- beta -**glucanase** that is suitable...for use in **detergents**. The deduced...Alkaline **endo**-1,4- beta -**glucanase** (Egl EC 3...effective **detergent** additive...alkaline **endo**-1,4- beta -**glucanases** from alkalophilic...for laundry **detergents**: production...

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endo-glucanase AND pH

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**pH regulates endoglucanase expression and virulence of *Alternaria alternata* in persimmon fruit - group of 4 »**

D Eshel, I Miyara, T Ailing, A Dinoor, D Prusky - Mol. Plant-Microbe Interact, 2002 - apsnet.org

... pH Regulates Endoglucanase Expression and Virulence of ... Effect of pH and glucose on AaK1 expression and endoglucanase production. ...  
Cited by 12 - [Web Search](#) - [BL Direct](#)

**... the high enzyme activity in the alkaline pH range of an alkaline endoglucanase from a *Bacillus* sp. - group of 3 »**

JS Park, J Hitomi, S Horinouchi, T Beppu - Protein Engineering, 1993 - peds.oupjournals.org

... ARTICLES. Identification of two amino acids contributing the high enzyme activity in the alkaline pH range of an alkaline endoglucanase from a *Bacillus* sp. ...  
Cited by 5 - [Web Search](#) - [BL Direct](#)

**Simultaneous production of high activities of thermostable endoglucanase and β-glucosidase by the ... - group of 3 »**

IV Gomes, JV Gomes, DJV Gomes, WV Steiner - Applied Microbiology and Biotechnology, 2000 - Springer

... FPase and endoglucanase activities were assayed at pH 4.5 as described by the International Union of Pure and Applied Chemistry (IUPAC 1987), using @lter ...  
Cited by 14 - [Web Search](#)

**Lyticase: Endoglucanase and Protease Activities That Act Together in Yeast Cell Lysis - group of 3 »**

JH Scott, R Schekman - Journal of Bacteriology, 1980 - jb.asm.org

... Lyticase: Endoglucanase and Protease Activities That Act Together in Yeast Cell ... distribution of products was pH dependent, smaller oligomers predominating at ...  
Cited by 62 - [Web Search](#)

**Cloning of a new endoglucanase gene from *Bacillus* sp. BP-23 and characterisation of the enzyme. ... - group of 3 »**

AG Blanco, PG Díaz, JG Martínez, TG Vidal, ALG ... - Applied Microbiology and Biotechnology, 1998 - Springer

... al. 1996; Iyo and Forsberg 1996), endo- glucanase A shows one of the lowest optimum pH values reported for an endoglucanase. At ...  
Cited by 16 - [Web Search](#) - [BL Direct](#)

**Mannanase activity of Endoglucanase III from *Trichoderma reesei* QM9414 - group of 2 »**

RG Macarrón, CG Acebal, MPG Castillón, MG ... - Biotechnology Letters, 1986 - Springer

... describes the mannanase activity of a well-characterised endoglucanase of *Trichoderma* ... With the Pharmacia Phast System (Pharmacia, Sweden), pH titration curves ...  
Cited by 5 - [Web Search](#) - [BL Direct](#)

**A study of the cellulases produced by three mesophilic actinomycetes grown on bagasse as substrate. - group of 2 »**

WH Van Zyl - Biotechnology and Bioengineering, 1985 - doi.wiley.com

... range of 4.0-8.0 at 50°C (using 0.05M citrate and phosphate buffers) and in the temperature range of 40-60°C at pH 5.0 for the endoglucanase and pH 6.0 for ...

Cited by 7 - Web Search

Characterization of a new endoglucanase from Erwinia chrysanthemi - group of 6 »

R endonucleases were obtained from New - Eur. J. Biochem, 1987 - blackwell-synergy.com

... Property Endo- Endo- glucanase Z glucanase Y purified from ... Methylum belliferyl - P-cellobioside + Optimum pH 7 5.5 ... line was observed with the endoglucanase of E ...

Cited by 11 - Web Search

Purification and characterization of an endoglucanase (1, 4-beta-D-glucan glucanohydrolase) from ... - group of 5 »

TK Ng, JG Zeikus - Biochem. J, 1981 - pubmedcentral.nih.gov

... at pH 6.72. The pH and temperature optima of the endoglucanase were 5.2 and 62 degrees C respectively. The enzyme lacked cysteine ...

Cited by 14 - Web Search

Controlling simultaneous production of endoglucanase and beta-glucosidase by Fusarium oxysporum in ... - group of 2 »

PP Christakopoulos, DP Kekos, FNP Kolisis, BJP ... - Biotechnology Letters, 1995 - Springer

... 3) show that endoglucanase and glucosidase retained 50% of their activities at pH 5.0 after 18.2 and 10.3 h at 60°C, respectively, whereas at 70°C the ...

Cited by 6 - Web Search - BL Direct

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endo-glucanase AND pH

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endo-glucanase AND thielavia

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[CITATION] ... and properties of a thermostable **endoglucanase** from a All articles [Recent articles](#) thermophilic mutant strain of **Thielavia** ...

EG KVESITADZE, TB LOMITASHVILI, MP KHUTSISHVILI, R ... - Applied biochemistry and biotechnology. Part A: enzyme ..., 1995 - Humana Press

Isolation and properties of a thermostable **endoglucanase** from a thermophilic mutant strain of **Thielavia terrestris**. EG KVESITADZE ...

Cited by 1 - Web Search - BL Direct

**A comparison of the thermostability of cellulases from various thermophilic fungi**

GA Wojtczak, CA Breuil, JA Yamada, JNA Saddler - Applied Microbiology and Biotechnology, 1987 - Springer

... **Thielavia** > ... However, when the **endoglucanase** activities of *T. terrestris* and *A.*

*terreus* were examined (Fig. ... The extracellular **endo- glucanase** of *A.* ...

Cited by 4 - Web Search

**Production and localization of cellulases and β-glucosidase from the thermophilic ... - group of 2 »**

CB Breuil, GB Wojtczak, JNB Saddler - Biotechnology Letters, 1986 - Springer

... The enzyme production and localization of **Thielavia terrestris** strains C464 and

NRRL ... enzyme; the half life of *T. terrestris* (C464) **endoglucanase** activity at 60 ...

Cited by 5 - Web Search

**Exogenous Cellulases of Thermophilic Micromycetes. 11. Thermostability of Enzyme Preparations**

D NIZHARADZE - Acta Biotechnol, 1986 - doi.wiley.com

... genera : *Chaetomium*, *Sporotrichum*, *Aspergillus*, **Thielavia**, *Fusarium*, *Walbranchea*, - ...

cultures, contain one cellulase component - **endoglucanase**, or two ...

Web Search

**Endoglucanase production by entrapped *Bacillus thermoalkalophilus***

KBG Krishna, AG Varma - World Journal of Microbiology and Biotechnology, 1990 - Springer

... Further study of the use of inducers such as sophorose for **endoglucanase** production

by immobilized cells and the rate of diffusion of ... **Thielavia terrestris**. ...

Cited by 1 - Web Search

**Optimization of fermentation conditions for thermostable cellulase production by *Thielavia terrestris* - group of 2 »**

AC Margaritis, RFC Merchant - Journal of Industrial Microbiology and Biotechnology, 1986 - Springer

... reesi QM 9414 solka ftoc (t = 120 h) (c,d) **Thielavia** 1% w/v 0.17 ... The effect of temperature on growth and cellulase (fl-l-4-endoglucanase) production in the ...

Cited by 3 - Web Search

**Isolation and characterization of a cellulolytic actinomycete *Microbispora bispora***

CRJ Waldron, CAJ Becker-Vallone, DEJ Eveleigh - Applied Microbiology and Biotechnology, 1986 - Springer

... It grew readily at 55 ° C, produced an extracellular cellulase in good yield

(**endoglucanase**, 5.9 U/ml) that had a broad pH range (pH 5.5--7.2) and was ...

Cited by 5 - Web Search

Purification and some properties of a thermostable acidic endo- $\beta$ -1, 4-d-mannanase from Sclerotium ( ... - group of 3 »

FM Letters - FEMS Microbiology Letters, 1999 - blackwell-synergy.com  
... fungi, eg from Aspergillus tamarii[5], Sporotrichum cellulophilum[6], Thielavia terrestris[7], and ... 1.9 U ml 1 xylanase, 2.9 U ml 1 endoglucanase, no detectable ...  
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